



MIAMI BEACH

OFFICE OF THE CITY MANAGER

LETTER TO COMMISSION

#111-2013

CITY CLERK'S OFFICE
AM: 11

RECEIVED

TO: Mayor Matti Herrera Bower and Members of the City Commission
FROM: Jimmy L. Morales, City Manager
DATE: April 3, 2013
SUBJECT: Repair and Reconstruction of City Seawalls

The purpose of this LTC is to provide a comprehensive list and status of seawalls under the City's jurisdiction. The 2011 City-wide Seawall Investigation Summary and Seawall Priority List discussed at the July 25, 2012 Finance and Citywide Projects Committee meeting has been updated to include the status of the repair and reconstruction of the highest priority seawalls.

The City evaluated its seawalls in 2003 and developed a report that prioritized their repair. Since that time, the City has improved many of them. In December 2011, the City completed a new seawall assessment that re-evaluated the 72 remaining seawalls that had not been improved and are not part of a planned neighborhood construction project.

The seawalls were assessed by condition and maintenance priority. Conditions indicate a likelihood of failure and were assessed on a scale from worst to best as:

- Critical
- Serious
- Poor
- Fair
- Satisfactory
- Good

Maintenance is prioritized based on the impact a failure of a seawall would have on adjacent property, utilities, or roads and were assessed as low, medium, or high.

The condition rating drives the ranking of each seawall. Each seawall was ranked based on the condition rating and then prioritized using the Maintenance Priority rank (see attached list).

The City is replacing as opposed to repairing the majority of its seawalls. Most of the seawalls have exceeded their useful service life. In most instances, major repairs would be costly, require continued maintenance, and not extend the service life of a seawall considerably. All seawalls with very advanced deterioration are in the CIP program. However, the remainders (with the exception of the Alton Road and I-195 Interchange seawall) are either unfunded or unprogrammed meaning that a capital project and budget has not yet been developed.

Attachment: City-wide Seawall Investigation Summary and Priority List

KGB/JGG/JF/RMS

MAMI BEACH SEAWALL ASSESSMENT

PRIORITIZED SEAWALL MAINTENANCE LIST

Priority Rank	Site Location	Condition Rating	Maintenance Priority	FIND Eligible	Status
1	Muss Park	Critical	MEDIUM	NO	Funded for design and construction in FY2012/13.
2	Wofford Park	Critical	MEDIUM	YES	Completed.
3	10th Street - West End	Critical	MEDIUM	YES	Funded for construction under Biscayne Bay Street End Enhancement Phase II for FY2012/13. Contractor selected and construction to begin April 2013.
4	Bonita Drive - North End	Critical	MEDIUM	NO	Funded for design in FY2012/13. Construction funding to be requested for FY2013/14.
5	Normandy Shores Park	Critical	LOW	YES	Funded for design in FY2012/13. FIND grant matching funds to be requested for construction in FY2013/14.
6	Bay Road	Serious	MEDIUM	NO	Unfunded. To be addressed in-house.
7	Indian Creek Park	Serious	LOW	YES	Unfunded. FIND grant matching funds requested for design in FY2013/14. FIND grant matching funds to be requested for construction in FY2014/15.
8	26th Street	Poor	HIGH	YES	Unfunded. Pending completion of FDOT Collins Avenue project.
9	West 29th Street Bridge	Poor	HIGH	NO	Unfunded. Pending completion of Sunset I and II project.
10	Indian Beach Park	Poor	HIGH	YES	Unfunded. FIND grant matching funds requested for design in FY2013/14. FIND grant matching funds to be requested for construction in FY2014/15.
11	36th Street	Poor	HIGH	YES	Unfunded.
12	35th Street	Poor	HIGH	YES	Unfunded.
13	27th Street	Poor	HIGH	YES	Unfunded.
14	34th Street	Poor	HIGH	YES	Unfunded.
15	37th Street	Poor	HIGH	YES	Unfunded.
16	Rue Versailles - South End	Poor	MEDIUM	YES	Design completed under Normandy Isle Channel project, construction unfunded.
17	Trouville Esplanade - North End	Poor	MEDIUM	NO	Unprogrammed.

PRIORITIZED SEAWALL MAINTENANCE LIST

Priority Rank	Site Location	Condition Rating	Maintenance Priority	FIND Eligible	Status
18 End.	Island View Park - South	Poor	MEDIUM	YES	Unprogrammed.
19 End	North Bay Road - North	Poor	MEDIUM	NO	Unprogrammed.
20 End	Indian Creek Drive - North	Poor	MEDIUM	NO	Unfunded.
21 29th Street	Poor	MEDIUM	YES	Unfunded.	
22 28th Street	Poor	MEDIUM	YES	Unfunded.	
23 42nd Street	Poor	MEDIUM	YES	Unfunded.	
24 43rd Street	Poor	MEDIUM	YES	Unfunded.	
25 44th Street	Poor	MEDIUM	YES	Unfunded.	
26 30th Street	Poor	MEDIUM	YES	Unfunded.	
27 31st Street	Poor	MEDIUM	YES	Unfunded.	
28 32nd Street	Poor	MEDIUM	YES	Unfunded.	
29 33rd Street	Poor	MEDIUM	YES	Unfunded.	
30 38th Street	Poor	MEDIUM	YES	Unfunded.	
31 End	Island View Park - North	Poor	MEDIUM	YES	Unprogrammed.
32 West 40th Street Parking Lot	Poor	MEDIUM	NO	Unprogrammed.	
33 Alton Road & I-195 Interchange	Poor	LOW	YES	To be completed by FDOT.	
34 End	Henedon Avenue - North	Poor	LOW	YES	Unprogrammed.
35 Vardon Street - North End	Poor	LOW	YES	Unprogrammed.	
36 65th Street - West End	Poor	LOW	YES	Unprogrammed.	
37 End	Henedon Avenue - South	Poor	LOW	YES	Unprogrammed.
38 25th Street	Fair	HIGH	Lake Pancoast	Unfunded.	
39 Bay Drive Bridge	Fair	HIGH	NO	Unprogrammed.	

PRIORITIZED SEAWALL MAINTENANCE LIST

Priority Rank	Site Location	Condition Rating	Maintenance Priority	FIND Eligible	Status
40	R.L. Blum Bridge (41st Street)	Fair	HIGH	YES	Unprogrammed.
41	85th Street Bridge	Fair	HIGH	NO	Unprogrammed.
42	Henedon Avenue Bridge	Fair	HIGH	NO	Unprogrammed.
43	77th Street Bridge	Fair	HIGH	NO	Unprogrammed.
44	24th Street	Fair	HIGH	Lake Pancoast	Unfunded.
45	Noremac Ave Bridge	Fair	HIGH	NO	Unprogrammed.
46	Cleveland Rd Bridge	Fair	HIGH	NO	Unprogrammed.
47	Daytonia Road Bridge	Fair	HIGH	NO	Unprogrammed.
48	Lincoln Court	Fair	MEDIUM	NO	Unprogrammed.
49	39th Street	Fair	MEDIUM	YES	Unfunded.
50	40th Street	Fair	MEDIUM	YES	Unfunded.
51	Julia Tuttle Causeway Ramp	Fair	MEDIUM	YES	Unprogrammed.
52	Bay Drive - North End	Fair	MEDIUM	NO	Unprogrammed.
53	Bonita Drive - South End	Fair	MEDIUM	YES	Unprogrammed.
54	Mitchell Street - North End	Fair	MEDIUM	YES	Unprogrammed.
55	South Pointe Park	Fair	MEDIUM	YES	Unprogrammed.
56	Rue Granville - North End	Fair	MEDIUM	NO	Unprogrammed.
57	Rue Notre Dame - North End	Fair	LOW	NO	Unprogrammed.
58	81st Street Footbridge	Fair	LOW	NO	Unprogrammed.
59	Park View Island Canal	Fair	LOW	NO	Unprogrammed.
60	Fairway Drive - Northeast End	Fair	LOW	YES	Unprogrammed.

PRIORITIZED SEAWALL MAINTENANCE LIST

Priority Rank	Site Location	Condition Rating	Maintenance Priority	FIND Eligible	Status
61 End	West 60th Street - East	Fair	LOW	YES	Unprogrammed.
62 81st Street - West End	Fair	LOW	NO		Unprogrammed.
63 End	Garden Avenue - South	Fair	LOW	NO	Unprogrammed.
64 End	Rivo Alto Island - North	Fair	LOW	YES	Unprogrammed.
65 End	Rue Notre Dame - South	Fair	LOW	YES	Unprogrammed.
66 Sunset Drive Bridge	Satisfactory	MEDIUM	NO		Unprogrammed.
67 Biarritz Drive Bridge	Good	HIGH	NO		Unprogrammed.
68 West 47th Street Bridge	Good	HIGH	NO		Unprogrammed.
69 South Biscayne Point Road Bridge	Good	HIGH	NO		Unprogrammed.
70 End	South Shore Drive - West	Good	MEDIUM	YES	Unprogrammed.
71 Station #3	Beach View Park & Fire	Good	MEDIUM	YES	Unprogrammed.
72 - East End	North Biscayne Point Road	Good	LOW	NO	Unprogrammed.